



Transportation Investment Grows the Economy

Short Run Impacts

- Increase Demand
- Jobs
- Output
- Wages
- Value Added

Long Run Benefits

- GDP Growth
- Increase Competitiveness
- Productivity Gains
- Raise Standard of Living
- Grow Income & Profits







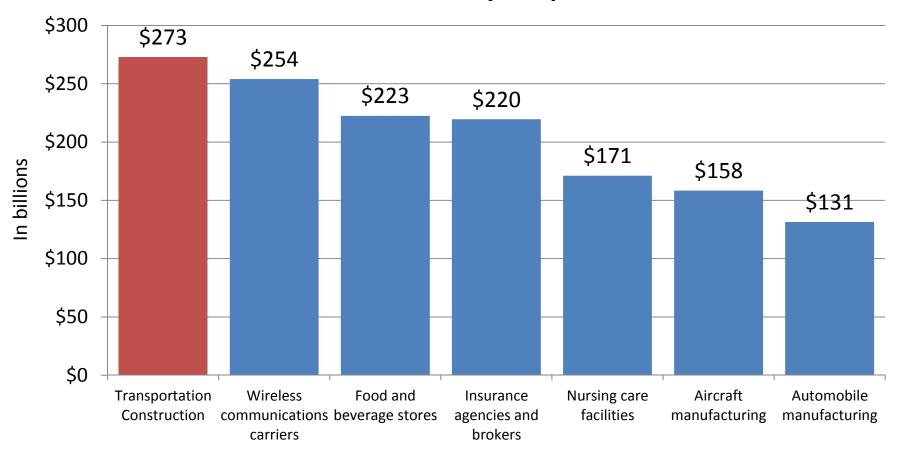
Source: ARTBA 2015 U.S. Transportation Construction Profile

Public and private transportation construction and maintenance investment in the U.S. was over \$273 billion in 2015



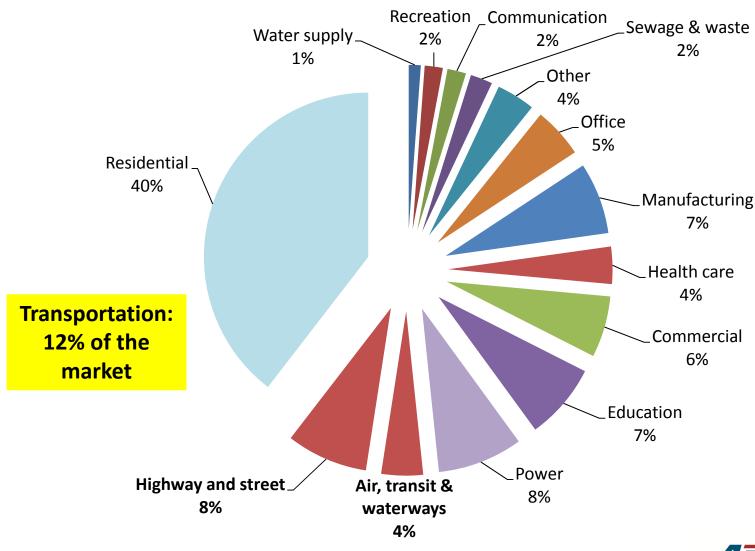
Source: ARTBA 2015 U.S. Transportation Construction Profile

Annual Industry Output





Transportation – 2nd largest construction sector





Transportation construction generates \$508 billion in total annual economic activity ... across the entire U.S. economy









Transportation construction contributes \$254 billion to U.S. GDP

... accounting for 1.6% of total GDP



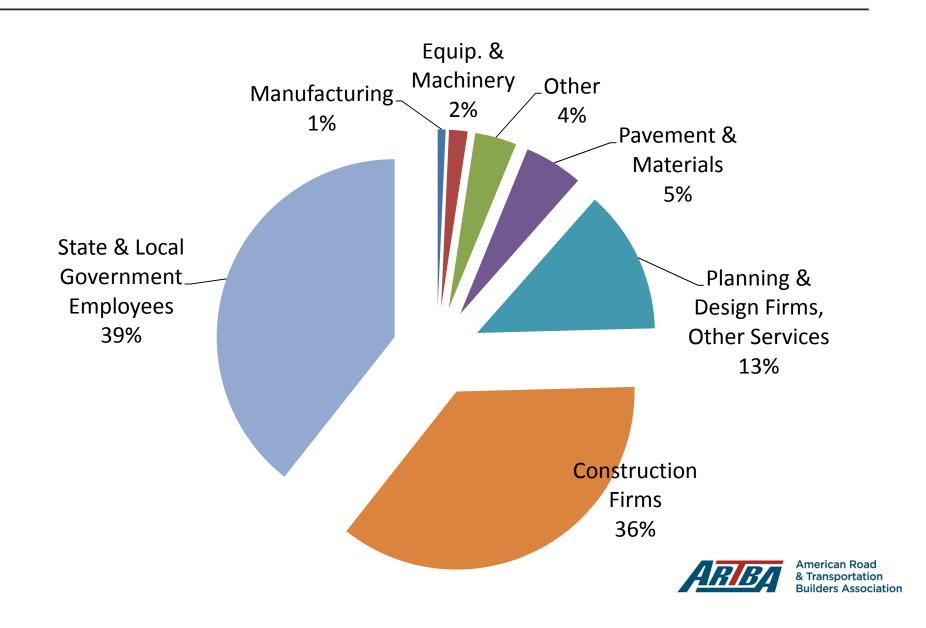


Transportation
Construction
supports
4 million
American jobs





Direct Employment Supported by Transportation Const.



Wage & Tax Impacts of Transportation Construction

Direct & Indirect Wages: \$155.7bn

State & Local Tax Contribution: \$17.5bn

Transportation Investment



Additional Employment Impacts

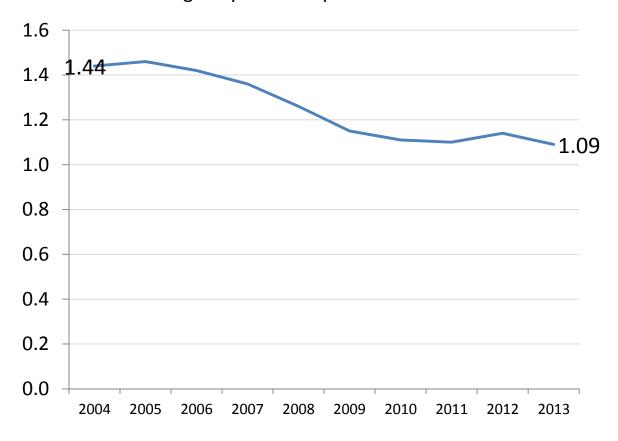
Over <u>63 million jobs</u> in tourism, manufacturing, agriculture, mining, retailing and other industries are <u>dependent</u> on our infrastructure network.





Transportation Investment Improves Safety

U.S. Highway fatalities per 100 million VMT



About 2/3 of highway fatalities due to roadway conditions and related factors

Source: NHTSA, PIRE "On a Crash Course: The Dangers and Health Costs of Deficient Roadways"

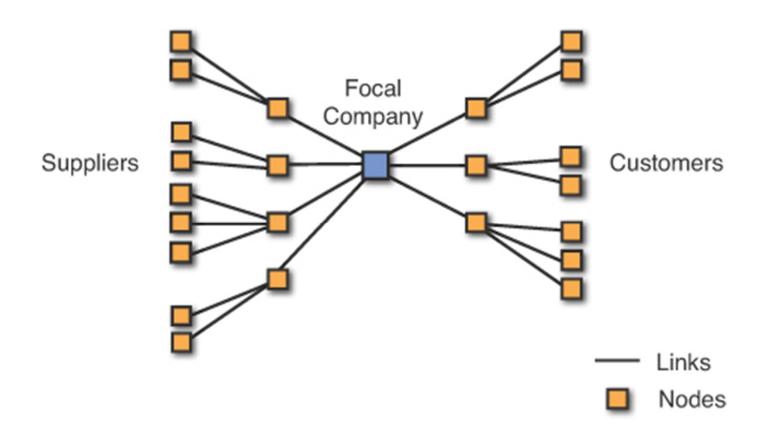


Transportation Investment - Long Run Benefits

- Creates tangible assets that are long-lived
- —Access to jobs
- Market access for businesses
- Reduced operating and production costs
- Agglomeration Economies



Benefits for Businesses, Employees and Consumers

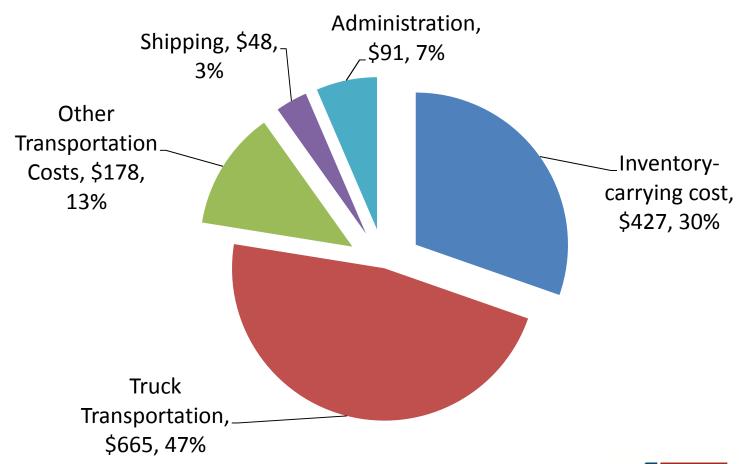


Source: Definitive Guide to Transportation, The Principles, Strategies and Decisions for the Effective Flow of Goods, FT Press



U.S. Businesses Spend \$1.4 trillion on Logistics

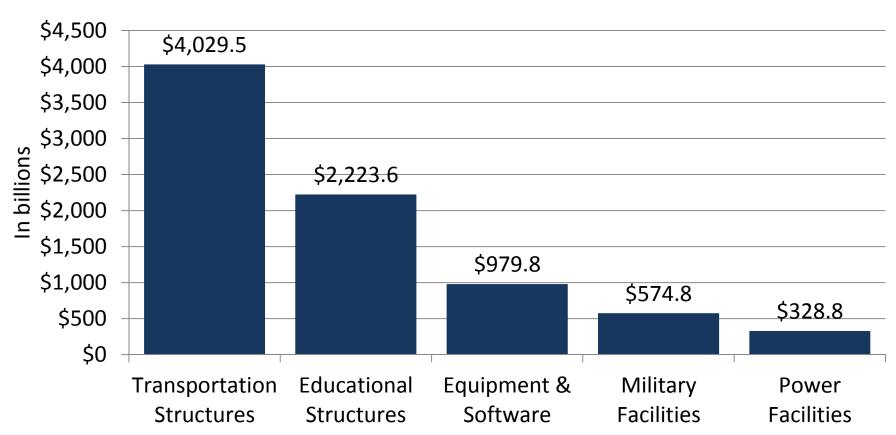
U.S. Logistics Costs 2015, in billions





Transportation Structures-Most Valuable Government Asset

Total Government Fixed Assets



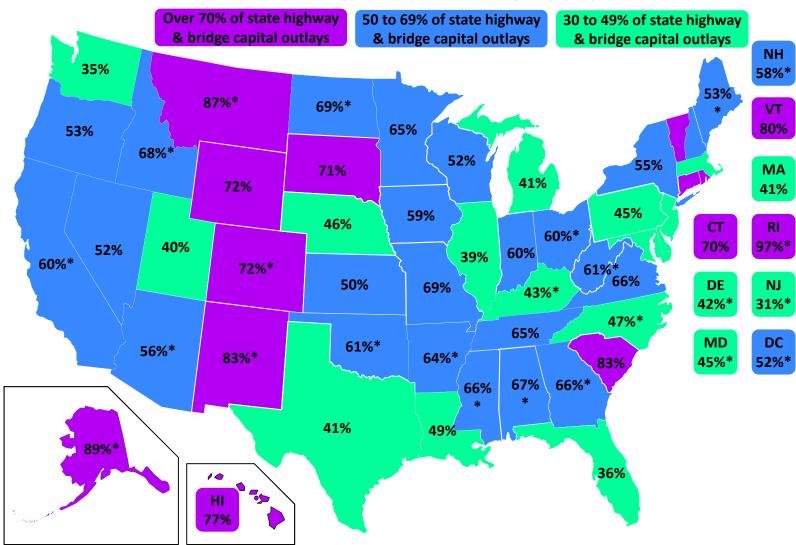


Continued Challenges

- Backlog of \$877 billion in highway/bridge projects alone
- Transit backlog of nearly \$78 billion
- Traffic congestion costs \$960 per driver
- Bridge and highway conditions
- Value of freight shipments
 - \$14 trillion (2015) to \$27.1 trillion (2040)
 - 76% carried via truck



Federal funds, on average, provide 52% of annual State DOT capital outlays for highway & bridge projects



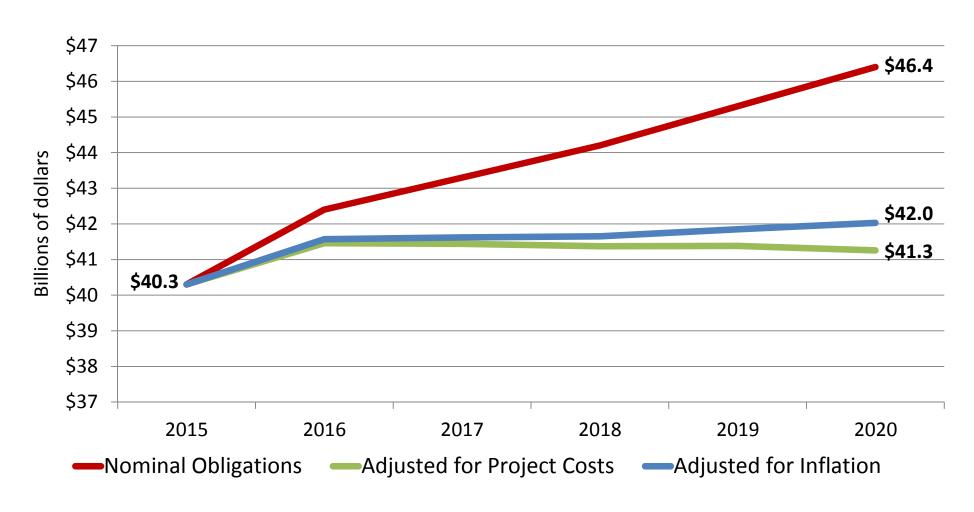
Source: ARTBA analysis of FHWA Highway Statistics data, total ten year average 2004-2013 from tables SF-1 and SF-2. The percent is the ratio of federal aid reimbursements to the state and total state capital outlays and is indicative of the importance of the federal aid program to state capital spending for highways and bridges. Does not include local capital spending. Federal highway reimbursements are primarily used for capital outlays, including construction, right of way and engineering, but are also used for debt service for GARVEE bonds.

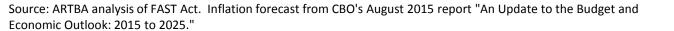
American Road & Transportation

Builders Association

^{*} States that have issued GARVEE bonds before 2013.

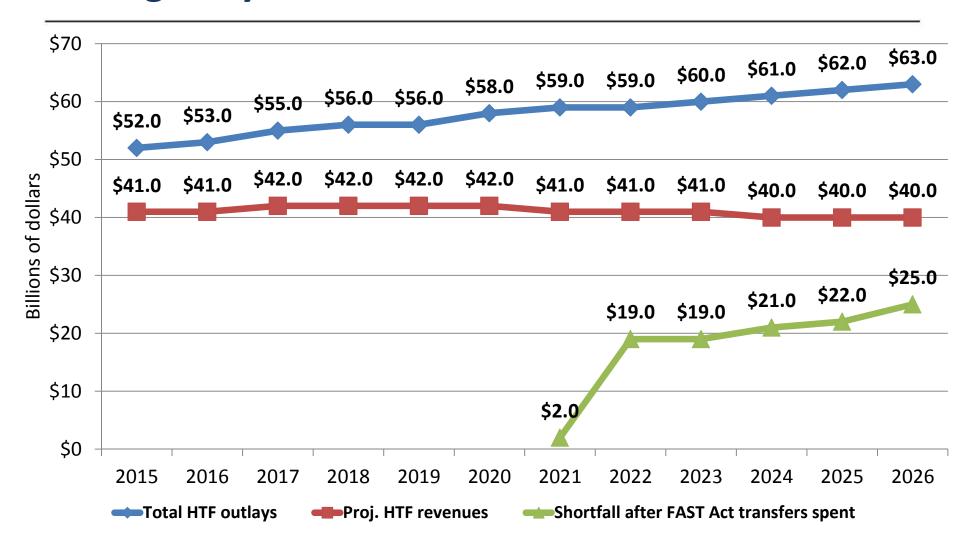
FAST Act Highway Investment Impact

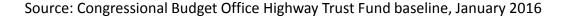






The Highway Trust Fund Revenue Crisis Will Return







www.transportationcreatesjobs.org



North Carolina Transportation Network Profile

Highways, Roads & Bridges				
Total Road Mileage	106,202			
Rural Mileage	68,727			
Urban Mileage	37,475			
Number of Bridges	18,117			
Airports				
Number of Airports	345			
Transit & Rail				
Bus Route Miles	1,749			
Transit Rail Route Miles	19			
Number of Transit Agencies	40			
Freight Railroad				
Railroad Miles 3,245				
Number of Railroads	22			
Ports & Waterways				
Miles of inland waterways	1,150			
Total Shipments (1,000 tons)	11,028			
Domestic Shipments	1,772			
Foreign Shipments	7,871			
Intrastate Shipments	1,385			
Number of waterway facilities	434			

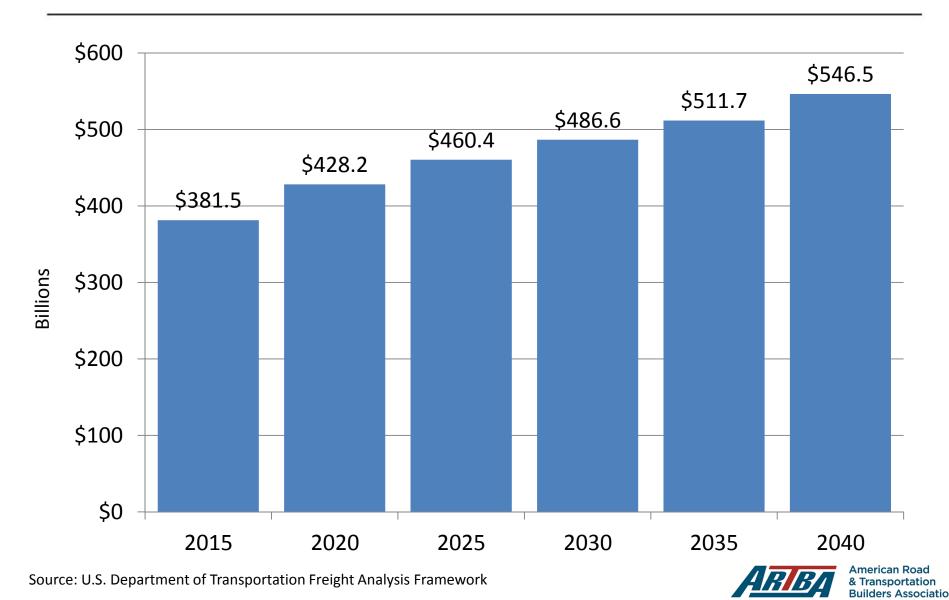


Economic Benefits of Transportation Construction

- Supports 109,902 North Carolina jobs
- \$3.7 billion in wages
- Contributing \$673.6 million in tax revenue
- An additional 1,919,316 jobs in North Carolina in tourism, retail sales, agriculture and manufacturing are completely dependent on transportation infrastructure.



The Value of North Carolina Truck Freight Shipments



Annual Cost of Congestion in North Carolina

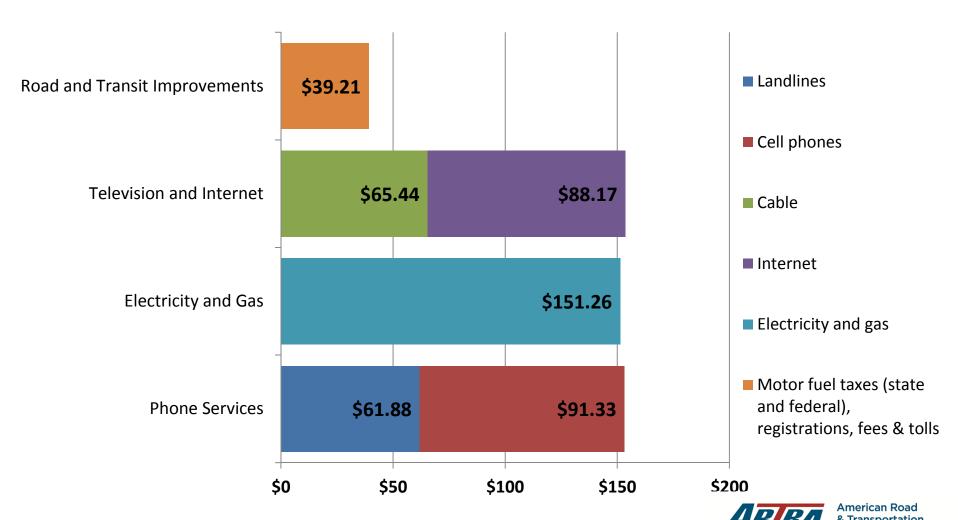
Urban Area	Annual Hours of Delay Per Commuter	Annual Cost of Congestion Per Commuter	Annual Gallons of Gasoline Wasted by Sitting in Traffic Per Commuter
Charlotte NC-SC	43	\$963	17
Myrtle Beach-Socastee SC-NC	30	\$754	16
Raleigh NC	34	\$734	13
Greensboro NC	32	\$703	14
Asheville NC	26	\$590	10
Durham NC	26	\$558	11
Wilmington NC	20	\$435	9
Hickory NC	19	\$427	8
Winston-Salem NC	19	\$415	7
Fayetteville NC	18	\$393	7
High Point NC	16	\$345	7
Gastonia NC-SC	15	\$339	7
Jacksonville NC	13	\$284	6
Concord NC	12	\$269	5
Greenville NC	11	\$255	5
Goldsboro NC	11	\$244	5
Rocky Mount NC	11	\$228	5
Danville VA-NC	9	\$202	4
Burlington NC	9	\$192	4

Source: Texas Transportation Institute 2015 Urban Mobility Scorecard



North Carolina Household Expenditures

AVERAGE MONTHLY HOUSEHOLD EXPENDITURES



Builders Association

Source: FHWA Highway Statistics, Bureau of Economic Analysis



Alison Premo Black
Senior Vice President & Chief Economist
American Road & Transportation Builders Association

ablack@artba.org

@APremoBlack

202-289-4434